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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Hans REICHENBACH ET AL.

Patent Art Unit: 1626

Serial No.: 09/313,524

Examiner: R. Gerstl

Filed: May 17, 1999

For: EPOTHILONES C, D, E AND F,
PREPARATION AND COMPOSITIONS

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, Applicants wish to call to the Examiner's attention the references cited on the attached form(s) PTO-1449. Copies of these references are enclosed herewith.

The Examiner is requested to consider the foregoing information in relation to this application, and indicate that each reference was considered by returning a copy of the initial PTO-1449 form(s).

This paper is being filed before the mailing date of either a final action under § 1.113, or a Notice of Allowance under § 1.311 and is accompanied by the fee set forth in § 1.17(p). The Commissioner is hereby authorized to charge payment of any fee deficiency or credit any overpayment associated with this communication to deposit account No. 18-2220.

Respectfully submitted,

12/17/2001 ECHAU1 00000124 182220 09313524

01 FC:126 180.00 CH

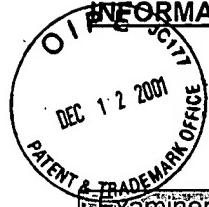
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Dated: December 12, 2001

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Docket No.: LD9003 NP
Serial No.: 09/313,524
Applicant: Reichenbach et al.
Filing Date: May 17, 1999

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Sub-class	Filing Date
✓AA	08/856,533	5/14/97	Nicolaou, K., et al.			5/14/97
✓AB	08/923,869	9/4/97	Nicolaou, K., et al.			9/4/97
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✓BB	19639456.2	5/29/97	Germany (German and English translation)			
✓BC	19542986.9	5/29/97	Germany (German and English translation)			
✓BD	19636343.8	3/5/98	Germany (German and English abstract)			
✓BE	19645361.5	4/30/98	Germany (German and English abstract)			
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✓BO	93/10121	5/27/93	World (PCT as published and English abstract)			
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✓BS	98/24427	6/11/98	World			

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FORM PTO-1449

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Docket No.: LD9003 NP Sheet 2 of 6
 Serial No.: 09/313,524 Group: 10
 Applicant: Reichenbach et al.
 Filing Date: May 17, 1999

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	BT ✓	98/25929	6/18/98	World (PCT as published and priority documents: U.S. 60/032,864, 08/856,533, 08/923,869)		
	BU ✓	98/38192	9/3/98	World (PCT as published and English abstract)		
	BV ✓	98/47891	10/29/98	World (PCT as published and English abstract)		
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	BY ✓	99/07692	2/18/99	World (PCT as published and English translation)		
	BZ ✓	99/39694	8/12/99	World (PCT as published)		
	BAAV ✓	99/42602	8/26/99	World (PCT as published)		
	BAB ✓	99/43320	9/2/99	World (PCT as published)		
	BAC ✓	00/37473	6/29/00	World (PCT as published)		
	BAD ✓	00/00485	1/6/00	World (PCT as published and English translation)		
	BAE ✓	00/66589	11/9/00	World (PCT as published)		
	BAF ✓	99/43653	9/2/99	World (PCT as published)		
	BAG ✓	99/02514	1/21/99	World (PCT as published)		
✓	BAH ✓	00/31247	6/2/00	World (PCT as published)		
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CA ✓	Balog, A., et al., "Total Synthesis of (-)-Epothilone A", <i>Angew. Chem. Int. Ed. Engl.</i> , Vol. 35, No. 23/24, 2801-2803 (1996)
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FORM PTO-1449
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Docket No.: LD9003 NP Sheet 3 of 8
 Serial No.: 09/313,524 Group: 1626
 Applicant: Reichenbach et al.
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	CE	Fujiwara, Y., et al., "Reductive Coupling of Carbonyl Compounds to Olefins by Tungsten Hexachloride-Lithium Aluminum Hydride and Some Tungsten and Molybdenum Carbonyls", <i>J. Org. Chem.</i> , Vol. 43, No. 12, 2477-2479 (1978)
	CF	Gladysz, J. A., et al., "Deoxygenation of Epoxides by Metal Atom Cocondensation", <i>J. Org. Chem.</i> , Vol. 41, No. 22, 3647-3648 (1976)
	CG	Hofle, G., et al., "Epothilone A and B – Novel 16-Membered Macrolides with Cytotoxic Activity: Isolation, Crystal Structure, and Conformation in Solution", <i>Angew. Chem. Int. Ed. Engl.</i> , Vol. 35, No. 13/14, 1567-1569 (1996)
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	CI	Inokuchi, T., et al., "Opening of Epoxides to Olefins or Halohydrins with Vanadium(II)-Tetrahydrofuran or Vanadium(III)-Tetrahydrofuran Complexes", <i>Synlett</i> , No. 6, 510-512 (1992)
	CJ	Kowalski, R. J., et al., "Activities of the Microtubule-stabilizing Agents Epothilones A and B with Purified Tubulin and in Cells Resistant to Paclitaxel (Taxol®)" <i>J. Biol. Chem.</i> , Vol. 272, No. 4, 2534-2541 (1997)
	CK	Kupchan, S. M., et al., "Reductive Elimination of Epoxides to Olefins with Zinc-Copper Couple", <i>J. Org. Chem.</i> , Vol. 36, No. 9, 1187-1190 (1971)
	CL	Martin, M. G., et al., "Epoxides as Alkene Protecting Groups. A Mild and Efficient Deoxygenation", <i>Tetrahedron Letters</i> , Vol. 25, No. 3, 251-254 (1984)
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	CP	Nicolaou, K. C., et al., "An Approach to Epothilones Based on Olefin Metathesis", <i>Angew. Chem. Int. Ed. Engl.</i> , Vol. 35, No. 20, 2399-2401 (1996)
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	CS	Nicolaou, K.C., et al., "The Olefin Metathesis Approach to Epothilone A and Its Analogues", <i>J. Am. Chem. Soc.</i> , Vol. 119, No. 34, 7960-7973 (1997)
	CT	Nicolaou, K. C., et al., "Total Syntheses of Epothilones A and B via a Macrolactonization-Based Strategy", <i>J. Am. Chem. Soc.</i> , Vol. 119, No. 34, 7974-7991 (1997)

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Docket No.: LD9003 NP Sheet 14 of 6
 Serial No.: 09/313,524 Group: 1026
 Applicant: Reichenbach et al.
 Filing Date: May 17, 1999

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CU ✓	Nicolaou, K. C., et al., "Synthesis of Epothilones A and B in Solid and Solution Phase", <i>Nature</i> , Vol. 387, 268-272 (1997)
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CAG ✓	Bollag, D., et al., "Epothilone, A New Structural Class of Microtubule Stabilizer", Abstract, <i>Proc. Am. Assoc. Cancer Res.</i> , Vol. 36, 86 Meet. 454 (1995)
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DEC 17 1999Docket No.: LD9003 NP Sheet 5 of 5
Serial No.: 09/313,524 Group: 1026
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Filing Date: May 17, 1999

FORM PTO-1449

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CAL	Chemical & Engineering News, "Solid-Phase Epothilone Synthesis Used to Create Analog Library", Vol. 75, No. 20, 33 (1997)
CAM	Claus, E., et al., "Synthesis of the C1-C9 Segment of Epothilons", <i>Tetrahedron Lett.</i> , Vol. 38, No. 8, 1359-1362 (1997)
CAN	De Brabander, J., et al., "Towards a Synthesis of Epothilone A: Rapid Assembly of the C1-C6 and C7-C12 Fragments", <i>Synlett</i> , Vol. 7, 824-826 (1997)
CAO	Gabriel, T. and Wessjohann, L., "The Chromium-Reformatsky Reaction: Asymmetric Synthesis of the Aldol Fragment of the Cytotoxic Epothilons from 3-(2-Bromoacyl)-2-Oxazolidinones", <i>Tetrahedron Lett.</i> , Vol. 38, No. 8, 1363-1366 (1997)
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CAQ	Marshall, A., "Total Synthesis of Epothilone", <i>Nature Biotechnology</i> , Vol. 15, No. 3, 205 (1997)
CAR	Meng, D., et al., "Studies Toward a Synthesis of Epothilone A: Use of Hydroxyran Templates for the Management of Acyclic Stereochemical Relationships", <i>J. Org. Chem.</i> , Vol. 61, No. 23, 7998-7999 (1996)
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CAX	Schinzer, D., et al., "Studies Towards the Total Synthesis of Epothilones: Asymmetric Synthesis of the Key Fragments", <i>Chem. Eur. J.</i> , Vol. 2, No. 22, 1477-1482 (1996)
CAY	Taylor, R. and Haley, J., "Towards the Synthesis of Epothilone A: Enantioselective Preparation of the Thiazole Sidechain and Macroyclic Ring Closure", <i>Tetrahedron Lett.</i> , Vol. 38, No. 12, 2061-2064 (1997)
CAZ	Schinzer, D., et al., "Syntheses of (-)-Epothilone A", <i>Chem. Eur. J.</i> , Vol. 5, No. 9, 2483-2491 (1999)
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FORM PTO-1449
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Docket No.: LD9003 NP Sheet 6 of 6
 Serial No.: 09/313,524 Group 1620
 Applicant: Reichenbach et al.
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	CBB	Nicolaou, K. C., et al., "Synthesis and Biological Properties of C12,13-Cyclopropylepothilone A and Related Epothilones", <i>Chemistry & Biology</i> , Vol. 5, No. 7, 365-372 (1998)
	CBC	Altmann, K.H., et al., "Epothilones and Related Structures – A New Class of Microtubule Inhibitors With Patent In Vivo Antitumor Activity," <i>Biochim. Biophys Acta</i> , 1470 (2000)
	CBD	Nicolaou et al., "Total Synthesis of Epothilone E and Analogs with Modified Side Chains Through The Stille Coupling Reaction", <i>Angew. Chem. Int. Ed.</i> 37, 84-87 (1998)
	CBE	Nicolaou et al., "Total Synthesis of Oxazole- and Cyclopropane-Containing Epothilone B Analogues by the Macrolactonization Approach", <i>Chemistry, European Journal</i> , Vol. 3, No. 12, 1971-1986 (1997)
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